

re-run

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
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Application Serial Number: 10/509,727

Source: IFWP

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re-run



IFWP

## RAW SEQUENCE LISTING

DATE: 08/09/2006

PATENT APPLICATION: US/10/509,727

TIME: 09:24:39

Input Set : N:\Crf4\Refhold\10\_folder\J509727.raw

Output Set: N:\CRF4\08092006\J509727.raw

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1 <110> APPLICANT: Yoshihide HAYASHIZAKI et al.
2 <120> TITLE OF INVENTION: NOVEL POLYPEPTIDE AND NUCLEIC ACID ENCODING THE SAME
3 <130> FILE REFERENCE: 0760-0339PUS1
4 <140> CURRENT APPLICATION NUMBER: US/10/509,727
5 <141> CURRENT FILING DATE: 2004-09-30
6 <160> NUMBER OF SEQ ID NOS: 18
7 <170> SOFTWARE: patent-in 3.2
9 <210> SEQ ID NO: 1
10 <211> LENGTH: 184
11 <212> TYPE: PRT
12 <213> ORGANISM: Homo sapiens
13 <400> SEQUENCE: 1
14   Met Thr Ser Phe Glu Asp Ala Asp Thr Glu Glu Thr Val Thr Cys Leu
15       1           5           10           15
16   Gln Met Thr Val Tyr His Pro Gly Gln Leu Gln Cys Gly Ile Phe Gln
17       20           25           30
18   Ser Ile Ser Phe Asn Arg Glu Lys Leu Pro Ser Ser Glu Val Val Lys
19       35           40           45
20   Phe Gly Arg Asn Ser Asn Ile Cys His Tyr Thr Phe Gln Asp Lys Gln
21       50           55           60
22   Val Ser Arg Val Gln Phe Ser Leu Gln Leu Phe Lys Lys Phe Asn Ser
23       65           70           75           80
24   Ser Val Leu Ser Phe Glu Ile Lys Asn Met Ser Lys Lys Thr Asn Leu
25       85           90           95
26   Ile Val Asp Ser Arg Glu Leu Gly Tyr Leu Asn Lys Met Asp Leu Pro
27       100          105          110
28   Tyr Arg Cys Met Val Arg Phe Gly Glu Tyr Gln Phe Leu Met Glu Lys
29       115          120          125
30   Glu Asp Gly Glu Ser Leu Glu Phe Phe Glu Thr Gln Phe Ile Leu Ser
31       130          135          140
32   Pro Arg Ser Leu Leu Gln Glu Asn Asn Trp Pro Pro His Arg Pro Ile
33       145          150          155          160
34   Pro Glu Tyr Gly Thr Tyr Ser Leu Cys Ser Ser Gln Ser Ser Ser Pro
35       165          170          175
36   Thr Glu Met Asp Glu Asn Glu Ser
37       180
39 <210> SEQ ID NO: 2
40 <211> LENGTH: 1613
41 <212> TYPE: DNA
42 <213> ORGANISM: Homo sapiens
43 <400> SEQUENCE: 2
44   ggcacgaggg agaggacgtg ctctgccagc cagtgggaag gcaggccgcg cgcgcgggag 60
45   cgcgggagga tcggcggtc gcggtcactg gtccttggt cggttcccc caccgggg 120

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46  ctcacactta cccgcgcgga ggagcagcgg cggggtgtcc acccccatcc tgcgcccagt 180
47  ctctctgatt cccctcgctc tgagccggga gagccgaaca gctgaagaga gttcactgac 240
48  tccccagccc caggtgggcc ttgtgcacat c atg acc agt ttt gaa gat gct 292
49                                     Met Thr Ser Phe Glu Asp Ala
50                                     1           5
51  gac aca gaa gag aca gta act tgt ctc cag atg acg gtt tac cat cct 340
52  Asp Thr Glu Glu Thr Val Thr Cys Leu Gln Met Thr Val Tyr His Pro
53          10           15           20
54  ggc cag ttg cag tgt gga ata ttt cag tca ata agt ttt aac aga gag 388
55  Gly Gln Leu Gln Cys Gly Ile Phe Gln Ser Ile Ser Phe Asn Arg Glu
56          25           30           35
57  aaa ctc cct tcc agc gaa gtg gtg aaa ttt ggc cga aat tcc aac atc 436
58  Lys Leu Pro Ser Ser Glu Val Val Lys Phe Gly Arg Asn Ser Asn Ile
59          40           45           50           55
60  tgt cat tat act ttt cag gac aaa cag gtt tcc cga gtt cag ttt tct 484
61  Cys His Tyr Thr Phe Gln Asp Lys Gln Val Ser Arg Val Gln Phe Ser
62          60           65           70
63  ctg cag ctg ttt aaa aaa ttc aac agc tca gtt ctc tcc ttt gaa ata 532
64  Leu Gln Leu Phe Lys Lys Phe Asn Ser Ser Val Leu Ser Phe Glu Ile
65          75           80           85
66  aaa aat atg agt aaa aag acc aat ctg atc gtg gac agc aga gag ctg 580
67  Lys Asn Met Ser Lys Lys Thr Asn Leu Ile Val Asp Ser Arg Glu Leu
68          90           95           100
69  ggc tac cta aat aaa atg gac ctg cca tac agg tgc atg gtc aga ttc 628
70  Gly Tyr Leu Asn Lys Met Asp Leu Pro Tyr Arg Cys Met Val Arg Phe
71          105           110           115
72  gga gag tat cag ttt ctg atg gag aag gaa gat ggc gag tca ttg gaa 676
73  Gly Glu Tyr Gln Phe Leu Met Glu Lys Glu Asp Gly Glu Ser Leu Glu
74          120           125           130           135
75  ttt ttt gag act caa ttt att tta tct cca aga tca ctc ttg caa gaa 724
76  Phe Phe Glu Thr Gln Phe Ile Leu Ser Pro Arg Ser Leu Leu Gln Glu
77          140           145           150
78  aac aac tgg cca cca cac agg ccc ata ccg gag tat ggc act tac tcg 772
79  Asn Asn Trp Pro Pro His Arg Pro Ile Pro Glu Tyr Gly Thr Tyr Ser
80          155           160           165
81  ctc tgc tcc tcc caa agc agt tct ccg aca gaa atg gat gaa aat gag 820
82  Leu Cys Ser Ser Gln Ser Ser Ser Pro Thr Glu Met Asp Glu Asn Glu
83          170           175           180
84  tca tgaacacaga aagtctaaga ggagaaatat gatggatgaa gagctctgta 873
85  Ser
86  gatgctgtat agacactaaa taagagttga ttagggtagt atattatagt catctgttat 933
87  gctgtgaaat ttggaattca aaattttgaa gtctgtaaat tgtgttagtc attaacttag 993
88  tcacctgttg tattctggat ctacacaaaa ttattttaag tgctcttatt aatctgtgag 1053
89  gattaatata caaaaagtat cctttgagat gaagtcgtgt tctcaaaata aggttatatt 1113
90  attttctttt tctgcttgat tttcatcttg tgttttgctt tgtttttgta aggaaccatc 1173
91  tcttggtttg gtcacatcag ttcacaacag ccatttgttt tcaaggtaa ggctccaggc 1233
92  aggttggttac tgggtgttg agcctgtcag tacttgtagt actggaatag gttctaggct 1293
93  agtgtctgag cgtcactgtg gtttttagcat gggaggactt atttgagaaa tactacctta 1353
94  cttttctatg atttcttttt acagagttat agtgtgttta ctcctaagat gacagttctc 1413

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```

95      tttgtctata ttcagcatct aagacaaata tttaaacatt ttaaagaacc actgtgttaa 1473
96      gtttaggatt atttacttac caaattagaa gtttgacttt tatgtgttat acacaatctt 1533
97      aaaatttcac gaattcacct ttttaatagt atccatgtac ataataaaat caaagtttaa 1593
98      ttaaaaaaaaa aaaaaaaaaa                                     1613

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100 &lt;210&gt; SEQ ID NO: 3

101 &lt;211&gt; LENGTH: 184

102 &lt;212&gt; TYPE: PRT

103 &lt;213&gt; ORGANISM: mouse

104 &lt;400&gt; SEQUENCE: 3

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105      Met Ser Thr Phe Glu Asp Ala Asp Thr Glu Glu Thr Val Thr Cys Leu
106      1          5          10          15
107      Gln Met Thr Ile Tyr His Pro Gly Gln Gln Ser Gly Ile Phe Lys Ser
108      20          25          30
109      Ile Arg Phe Cys Ser Lys Glu Lys Phe Pro Ser Ile Glu Val Val Lys
110      35          40          45
111      Phe Gly Arg Asn Ser Asn Met Cys Gln Tyr Thr Phe Gln Asp Lys Gln
112      50          55          60
113      Val Ser Arg Ile Gln Phe Val Leu Gln Pro Phe Lys Gln Phe Asn Ser
114      65          70          75          80
115      Ser Val Leu Ser Phe Glu Ile Lys Asn Met Ser Lys Lys Thr Ser Leu
116      85          90          95
117      Met Val Asp Asn Gln Glu Leu Gly Tyr Leu Asn Lys Met Asp Leu Pro
118      100         105         110
119      Tyr Lys Cys Met Leu Arg Phe Gly Glu Tyr Gln Phe Leu Leu Gln Lys
120      115         120         125
121      Glu Asp Gly Glu Ser Val Glu Ser Phe Glu Thr Gln Phe Ile Met Ser
122      130         135         140
123      Ser Arg Pro Leu Leu Gln Glu Asn Asn Trp Pro Thr Gln Asn Pro Ile
124      145         150         155         160
125      Pro Glu Asp Gly Met Tyr Ser Ser Tyr Phe Thr His Arg Ser Ser Pro
126      165         170         175
127      Ser Glu Met Asp Glu Asn Glu Leu
128      180

```

130 &lt;210&gt; SEQ ID NO: 4

131 &lt;211&gt; LENGTH: 1970

132 &lt;212&gt; TYPE: DNA

133 &lt;213&gt; ORGANISM: Mouse

134 &lt;400&gt; SEQUENCE: 4

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135      gagttaggag cagcttgtcc cgcgtgcgca gctgggttgt cagtgtgtgcg gtgtacctaa 60
136      cacaccgaca cagacccttc ttttttctcc caggagagga gacaaggctc aggagtcctg 120
137      atctagctgt ggccactgga agactctcag gccggggagc gtc atg tcc acc ttt 175
138      Met Ser Thr Phe
139      1
140      gaa gac gct gat aca gag gag acg gtc act tgt ctc cag atg acc att 223
141      Glu Asp Ala Asp Thr Glu Glu Thr Val Thr Cys Leu Gln Met Thr Ile
142      5          10          15          20
143      tac cat cct ggc caa caa agt ggg ata ttt aaa tca ata agg ttt tgc 271
144      Tyr His Pro Gly Gln Gln Ser Gly Ile Phe Lys Ser Ile Arg Phe Cys
145      25          30          35

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146   agc aaa gag aag ttt cct tcc att gaa gtg gtg aaa ttt gga cgc aat      319
147   Ser Lys Glu Lys Phe Pro Ser Ile Glu Val Val Lys Phe Gly Arg Asn
148               40                      45                      50
149   tcc aac atg tgc cag tat acg ttt cag gac aaa cag gtg tcc cga att      367
150   Ser Asn Met Cys Gln Tyr Thr Phe Gln Asp Lys Gln Val Ser Arg Ile
151               55                      60                      65
152   cag ttt gtt tta cag ccg ttt aaa cag ttc aac agc tcc gtt ctc tcg      415
153   Gln Phe Val Leu Gln Pro Phe Lys Gln Phe Asn Ser Ser Val Leu Ser
154               70                      75                      80
155   ttt gaa ata aaa aac atg agc aag aaa acc agt ttg atg gta gac aac      463
156   Phe Glu Ile Lys Asn Met Ser Lys Lys Thr Ser Leu Met Val Asp Asn
157               85                      90                      95                      100
158   cag gag ctc ggc tac ctc aat aaa atg gac ctg cct tac aag tgt atg      511
159   Gln Glu Leu Gly Tyr Leu Asn Lys Met Asp Leu Pro Tyr Lys Cys Met
160               105                      110                      115
161   ctc agg ttc gga gag tat cag ttc ctg ttg cag aag gaa gac gga gag      559
162   Leu Arg Phe Gly Glu Tyr Gln Phe Leu Leu Gln Lys Glu Asp Gly Glu
163               120                      125                      130
164   tcg gtg gaa tct ttt gag act caa ttt atc atg tct tca aga cct ctc      607
165   Ser Val Glu Ser Phe Glu Thr Gln Phe Ile Met Ser Ser Arg Pro Leu
166               135                      140                      145
167   ttg caa gaa aac aac tgg cca aca cag aat ccc ata cca gag gat ggg      655
168   Leu Gln Glu Asn Asn Trp Pro Thr Gln Asn Pro Ile Pro Glu Asp Gly
169               150                      155                      160
170   atg tat tct tca tac ttc acc cac aga agt tct cct tca gaa atg gat      703
171   Met Tyr Ser Ser Tyr Phe Thr His Arg Ser Ser Pro Ser Glu Met Asp
172               165                      170                      175                      180
173   gaa aac gaa ctg tgaagagggt ccaactggag acacattgaa ggatgaggac      755
174   Glu Asn Glu Leu
175   acatggggtcg gatgtcaaga gacatcctac ttccgagttt gtgagtgtag cgtagcgcgg      815
176   ctgtcctcat gctgactttc gttttggtaa tagcatttgg aagtctctag actgtgttaa      875
177   tcatcaactt agtcaactga gtttcggctc tacaagaat taagtgtaca tctgtaaggg      935
178   ttggtgcac agacacgtct tctgggtaat gaggtcaccc ttgttgcttt tctgcatgat      995
179   gttaccccca tgctttgtct tgggtggcagc catctcttgg cccggtcaca tcatttcgta 1055
180   gcagcctttg tttttcaggt ttagagctcg ggcagattgc tctactggtgt ctgtggcgtg 1115
181   ctagcgcttg tagaactaga gtccctggaat aagttctaga gtgctgagtc actgagtcac 1175
182   catggcttcc ttatggaaag acttgggaaa tagctccttg attttctttc tgtggaacgg 1235
183   tagtgcgct ttcctatatg taggacctac aacaaacatt taaagaacac tgagatgaag 1295
184   atggttttct tacaatattg aaagtgaatt ttatgtatct cacagattta aaaatggcag 1355
185   aaatcaaaac ttttaacagc ctctttgcac atgataaagc cggagcccag ttccttagtt 1415
186   gcttcttttg aacttcttaa aggaaaacat gtattcttaa aggaaaacat ctattcttag 1475
187   gctgccctat agaagtcagt acctgtgaat atttatatta aatgcttaat tatttctaaa 1535
188   attttagttt cacataaagt tgtatttatt taaaagattc tcattcactt cattttggct 1595
189   agattaagat gaatgttagt gaacattatg taaaagagga tgaaagccat taagttaaga 1655
190   taaattctag cattactagt aagtaaggca ccctgtatag ctctctctgt aaatgaaatt 1715
191   taatgctgta acaggtacag gattttgggt aggggaggag gtcaggtggg ggaagttagc 1775
192   cacattcata ttttggtttt gtttttgggt ttgtttttgt ttttggtttc caacaatagc 1835
193   ttgctttgaa gtcaggctg gcttggaaact cttgatcctc atacatcggc cccctgaatg 1895
194   ctgtgcctag cttaatgtaa ctgtatttct gcaacagccc tttgaaatta tttctaataa 1955

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195      actgtttggc ctagt                                1970
197 <210> SEQ ID NO: 5
198 <211> LENGTH: 34
199 <212> TYPE: DNA
200 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Synthetic oligonucleotide primer for PCR
203 <400> SEQUENCE: 5
204      gaaggagccg ccaccatgtc cacctttgaa gacg                                34
206 <210> SEQ ID NO: 6
207 <211> LENGTH: 32
208 <212> TYPE: DNA
209 <213> ORGANISM: Artificial Sequence
210 <220> FEATURE:
211 <223> OTHER INFORMATION: Synthetic oligonucleotide primer for PCR
212 <400> SEQUENCE: 6
213      gaaggagccg ccaccatggc tgcagccagt gt                                32
215 <210> SEQ ID NO: 7
216 <211> LENGTH: 26
217 <212> TYPE: DNA
218 <213> ORGANISM: Artificial Sequence
219 <220> FEATURE:
220 <223> OTHER INFORMATION: Synthetic oligonucleotide primer for PCR
221 <400> SEQUENCE: 7
222      agcggataac aatttcacac aggaaa                                26
224 <210> SEQ ID NO: 8
225 <211> LENGTH: 49
226 <212> TYPE: DNA
227 <213> ORGANISM: Artificial Sequence
228 <220> FEATURE:
229 <223> OTHER INFORMATION: Synthetic oligonucleotide primer for PCR
230 <400> SEQUENCE: 8
231      gtttcctgtg tgaaattggt atccgctgca gacatgataa gatacattg                                49
233 <210> SEQ ID NO: 9
234 <211> LENGTH: 41
235 <212> TYPE: DNA
236 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: Synthetic oligonucleotide primer for PCR
239 <400> SEQUENCE: 9
240      agcaagttca gcctgggttaa gacacctatc gattttacca c                                41
242 <210> SEQ ID NO: 10
243 <211> LENGTH: 22
244 <212> TYPE: DNA
245 <213> ORGANISM: Artificial Sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: Synthetic oligonucleotide primer for PCR
248 <400> SEQUENCE: 10
249      ccaatatgac cgccatgttg gc                                22

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**VERIFICATION SUMMARY**

DATE: 08/09/2006

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TIME: 09:24:40

Input Set : N:\Crf4\Refhold\10\_folder\J509727.raw

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